



Safety Data Sheet

Product Name: PX550 OH, PX650 OH, PXA10 OH, PXA20 OH, PXA40 OH
 (Type 1 Strong Base Anion Exchange Resin in the Hydroxide Form)
 Effective Date 06 September 2016

Section 1: Identification

1a	Product Name	ResinTech PowerMax PX550 OH, PX650 OH, PXA10 OH, PXA20 OH, PXA40 OH
1b	Common Name	Type 1 Strong base anion resin in the hydroxide form.
1c	Intended use	All hydroxide for anion exchanges such as separate beds and mixed beds.
1d	Manufacturer Address Phone Email	ResinTech, Inc. 160 Cooper Road, West Berlin, NJ 08091 USA 856-768-9600 ixresin@resintech.com

Section 2: Hazard Identification

2a	OSHA Hazard classification	Not hazardous or dangerous												
		<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Product Hazard Rating</th> <th style="text-align: left;">Scale</th> </tr> </thead> <tbody> <tr> <td>Health = 0</td> <td>0 = Negligible</td> </tr> <tr> <td>Fire = 1</td> <td>1 = Slight</td> </tr> <tr> <td>Reactivity = 0</td> <td>2 = Moderate</td> </tr> <tr> <td>Special – N/A</td> <td>3 = High</td> </tr> <tr> <td></td> <td>4 = Extreme</td> </tr> </tbody> </table>	Product Hazard Rating	Scale	Health = 0	0 = Negligible	Fire = 1	1 = Slight	Reactivity = 0	2 = Moderate	Special – N/A	3 = High		4 = Extreme
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2b	Product description	Light cream to light yellow colored solid beads approximately 0.6 mm diameter with moderate to strong amine odor.												
2c	Precautions for use	Safety glasses and gloves recommended. Slipping hazard if spilled.												
2c	Potential health effects	Will cause eye irritation. Will cause skin irritation. Ingestion is not likely to pose a health risk.												
2d	Environmental effects	This product may alter the pH of any water that contacts it.												

Section 2A: Hazard classification UN OSHA globally harmonized system



WARNING

(contains hydroxide form anion exchange resin)

H315: Causes skin irritation (Category 2)

H319: Causes serious eye irritation (Category 2A)

H335: May cause respiratory irritation

Precautionary Statements

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

P337+313: If eye irritation persists get medical advice/attention.

P403+233: Store in a well-ventilated place. Keep container tightly closed.

P411: Store at temperatures not exceeding 50 °C/ 122 °F.

Please refer to the safety data sheet for additional information regarding this product

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Section 3: Composition/ Information on Ingredients

3a	Chemical name	Trimethylamine functionalized chloromethylated polystyrene copolymer in the hydroxide form.
3b	Ingredients	
	Trimethylamine functionalized chloromethylated copolymer of styrene and divinylbenzene in the hydroxide form	CAS# 69011-18-3 (35 - 65%)
	Water	CAS# 7732-18-5 (35 – 65%)

Section 4: First Aid Measures

4a	Inhalation	No adverse effects expected- normal use of product does not produce odors or vapors.
4b	Skin	Wash with soap and water- seek medical attention if a rash develops.
4c	Eye contact	Wash immediately with water- seek attention if discomfort continues.
4d	Ingestion	No adverse effects expected for small amounts, larger amounts can cause stomach irritation. Seek medical attention if discomfort occurs.

Section 5: Fire Fighting Measures

5a	Flammability	NFPA Fire rating = 1
5b	Extinguishing media	Water, CO2, foam, dry powder.
5c	Fire fighting Procedures	Follow general fire fighting procedures indicated in the work place. Seek medical attention if discomfort continues.
5d	Protective Equipment	MSHA/NIOSH approved self-contained breathing gear, full protective clothing.
5e	Combustion Products	Carbon oxides and other toxic gasses and vapors.
5f	Unusual Hazards	Product is not combustible until moisture is removed. Resin begins to burn at approximately 230° C. Auto ignition can occur above 500° C.

Section 6: Accidental Release Measures

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|----|---------------------------|---|
| 6a | Personal Precautions | Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact. Amine vapors released in headspace above sealed containers can exceed recommended exposure levels for trimethylamine. |
| 6b | Incompatible Chemicals | Strong oxidants can create risk of combustion products similar to burning, exposure to strong acids can cause a rapid temperature increase. |
| 6c | Environmental Precautions | Keep out of public sewers and waterways. |
| 6d | Containment Materials | Use plastic or paper containers, unlined metal containers not recommended. |

Section 7: Handling and Storage

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|----|---------------------|--|
| 7a | Handling | Prolonged skin contact will cause burns due to causticity. Avoid contact with salts or with salty water to prevent premature exhaustion of the resin. Keep resin moist and avoid allowing resin to completely dry. |
| 7b | Storage | Store in a cool dry place (0° to 45° C) in the original shipping container. This product is thermally sensitive and will have reduced shelf life if subjected to extended periods of time at temperatures exceeding 50° C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw cycles. |
| 7c | TSCA considerations | Ion exchange resins should be listed on the TSCA Inventory in compliance with State and Federal Regulations. |

Section 8: Exposure Controls/Personal Protection

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|----|---|---|
| 8a | OSHA exposure limits | None noted. |
| 8b | Engineering Controls | Provide adequate ventilation. |
| 8c | Personal Protection Measures
Eye Protection
Respiratory Protection
Protective Gloves | Safety glasses or goggles.
Not required for normal use.
Not required for limited exposure but recommended for extended contact. |

Section 9: Physical and Chemical Properties

Appearance	Amber, yellow, or red beads approx. 0.6 mm diameter.
Flammability or explosive limits	Flammable above 500° C
Odor	Moderate to strong amine odor
Physical State	Solid
Vapor pressure	Not available
Odor threshold	Not available
Vapor density	Not available
pH	Basic when mixed with water
Relative density	Approx 680 grams/Liter
Melting point/freezing point	Does not melt, freezes at approx. 0 C
Solubility	Insoluble in water and most solvents
Boiling point	Does not boil
Flash point	Approx 500° C
Evaporation rate	Does not evaporate
Partition Coefficient (n-octonol/water)	Not applicable
Auto-ignition temperature	Approx 500° C
Decomposition temperature	Above 230° C
Viscosity	Not applicable

Section 10: Stability and Reactivity

10a Stability	Stable under normal conditions.
10b Conditions to Avoid	Heat, exposure to strong oxidants.
10c Hazardous by-products	Trimethylamine, charred polystyrene, aromatic acids and hydrocarbons, organic amines, nitrogen oxides, carbon oxides, chlorinated hydrocarbons.
10d Incompatible materials	Strong oxidizing agents (such as HNO ₃), strong acids (such as HCl, H ₂ SO ₄ etc)
10e Hazardous Polymerization	Does not occur

Section 11: Toxicological Information

11a	Likely Routes of Exposure	Oral, skin or eye contact.
11b	Effects of exposure Delayed Immediate (acute) Chronic	None known. None known. None known.
11c	Toxicity Measures Skin Adsorption Ingestion Inhalation	Unlikely, some transfer of acidity is possible. Oral toxicity believed to be low but no LD50 has been established. Unknown, vapors are very unlikely due to physical properties (insoluble solid).
11d	Toxicity Symptoms Skin Adsorption Ingestion Inhalation	Mild Rash. Indigestion or general malaise. Unknown.
11e	Carcinogenicity	None known

Section 12: Ecological information

12a	Eco toxicity	Not acutely harmful to plant or animal life.
12b	Mobility	Insoluble, acidity or causticity may escape if wet.
12c	Biodegradability	Not biodegradable.
12d	Bioaccumulation	Insignificant.
12e	Other adverse effects	Not Harmful to the environment.

Section 13: Disposal Considerations

13a	General considerations	Material is non-hazardous. However, unused material can cause a pH change when wetted.
13b	Disposal Containers	Most plastic and paper containers are suitable. Avoid use of unlined metal containers.
13c	Disposal methods	No specific method necessary.
13d	Sewage Disposal	Not recommended.
13e	Precautions for incineration	May release trimethylamine and toxic vapors when burned.

13f Precautions for landfills	Resins used to remove hazardous materials may then become hazardous mixtures
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Section 14: Transportation Information

14a Transportation Class	Not classified as a dangerous good for transport by land, sea, or air.
14b TDG	Not regulated.
14c IATA	Not regulated.
14d DOT (49 CFR 172.101)	Not Regulated.

Section 15: Regulatory Information

15a CERCLA	Not regulated
15b SARA Title III	Not regulated
15c Clean Air act	Not regulated
15d Clean Water Act	Not regulated
15e TSCA	Not regulated
15f Canadian Regulations WHMIS TDG	Not a controlled product Not regulated
15g Mexican Regulations	Not Dangerous

Section 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that their activities comply with federal, state, and local laws.

16a Date of Revision	06 September 2016
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